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Isolation and nucleotide sequence of the gene encoding human rhodopsin.

Nathans J, Hogness DS.

PubMed Services

We have isolated and completely sequenced the gene encoding human rhodopsin. The coding region of the human rhodopsin gene is interrupted by four introns, which are located at positions analogous to those found in the previously characterized bovine rhodopsin gene. The amino acid sequence of human rhodopsin, deduced from the nucleotide sequence of its gene, is 348 residues long and is 93.4% homologous to that of bovine rhodopsin. Interestingly, those portions of the polypeptide chain predicted to form loops on the cytoplasmic face of rhodopsin are perfectly conserved between the human and bovine proteins.

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